PTO/SB/42 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

(Use several sheets if necessary)

Docket Number (Optional) HRL033-B	Patent Number
Applicant WU	
Issue Date	Group Art Unit

U.S PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,453,864	09/26/1995	Yamada Shuhei, et al			
	6,149,837	11/21/2000	Sekine, et al.	252	299.6	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	4119900	10/24/1991	DE				
	0648723	04/19/1995	EP				
	4105742	08/27/1992	DE				
	0442266	08/21/1991	EP				
	0581272	02/02/1994	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	DATABASE WPI Section Ch, Week 199348 Derwent Publication Ltd., London, GB; Class E13, AN 1993-383033 XP002192887
	2	Bremer, Matthias, et al., "Gas phase molecular modeling of liquid crystal: electro-optical anisotropies: ADV. MATER. (WEINHEIM, FED. REPUB. GER.) (1993), 5 (11), 842-8, 1993, XP000414825
	3	DATABASE CA "Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TAKEUCHI, KIYOBUMI ET AL: "Nematic liquid crystal compositions and liquid -- crystal display devices containing them" retrieved from STN Database accession no. 127:115344 CA XP002192882

EXAMINER	DATE CONSIDERED
	7/9/03

PTO/SB/42 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

(Use several sheets if necessary)

Docket Number (Optional)	Patent Number
HRL033-B	
Applicant: WU	
Issue Date	Group Art Unit

U.S PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	4	DATABASE CA "Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; OOSAWA, MASASHI ET AL: "1-(4-Cyclohexylpheny1)-2-phenylethane
		derivative for liquid crystal display device" retrieved from STN Database accession no. 125:22403 CA XP002192883.
	5	DATABASE CA "Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NAKADA, HIDETOSHI ET AL: "Manufacture of liquid - crystal device
		having light-controlling layer from composition with controlled specific resistance" retrived from STN Database accession no. 127:26381 CA XP002192884
	6	DATABASE CA "Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; OSAWA ET AL.:"liquid-crystalline characteristic diacetylene compound
		with high dielectric anisotropy" retrieved from STN Database accession no. 128:186837 CA XP002192885

EXAMINER	DATE CONSIDERED
	7/9/03

PTO/SB/42 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

37 CFR 1.501 INFORMATION DISCLOSURE CITATION IN A PATENT

(Use several sheets if necessary)

Docket Number (Optional) HRL033-B	Patent Number
Applicant WU	
Issue Date	Group Art Unit

U.S PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	7	TANAKA, TOSHIHIKO ET AL.: "Highly anisotropic molecular materials for LCD" MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY, SECTION A: MOLECULAR CRYSTALS AND LIQUID CRYSTALS (2000), 346, 209-216, 2000, XP008001341

EXAMINER	DATE CONSIDERED
	7/9/03

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.